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(71) Applicant: MITSUI TOATSU CHEM INC

(72) Inventor: KITAGAWA YORIHISA

HIROSE ZENKO **ASHIDA YOSHINORI** ISOTANI KAZUYOSHI

(74) Representative:

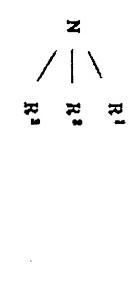
FILM WITH WIDE BAND AMORPHOUS SILICON (54) FORMATION OF

(57) Abstract:

starting material. of ammonia (deriv.) to a gaseous method by adding a specified amount chemical vapor deposition (CVD) satisfactory control efficiency in the amorphous silicon (a-Si) film with PURPOSE: To form the titled manufacture of an a-Si film by a

each or R1WR7 is H, alkyl or aryl. A represented by formula I and/or about 1.6W2.5eV band gap. silane] to form an a-Si film with amount of silicon in the gaseous the silane by an amount satisfying and/or hydrazine (deriv.) is added to At this time, said ammonia (deriv.) deposit an a-Si film on the substrate. decomposed at about 250W600°C to nitrogen, and the silane is thermally together with an inert gas such as represented by formula III (where n is substrate is placed in a decomposition formula II is used. In the formulae hydrazine (deriv.) represented by CONSTITUTION: Ammonia (deriv.) hydrazine (deriv.), and Si is the relation represented by formula IV introduced into the furnace optionally furnace, silane of higher order the ammonia (deriv.) and/or [where N is the amount of nitrogen in 2) such as disilane or trisilane is

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